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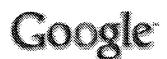Result Page: **Previous** 1 2 3 4 5 6 7 8 9 1011   **Next**

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21 Fuzzy control for the pursuing problem of an adaptive planar structure
Poyu Tsou, M.-H. Herman Shen
April 1994 **Proceedings of the 1994 ACM symposium on Applied computing**

Full text available: pdf(399.06 KB) Additional Information: full citation, references, index terms

Keywords: adaptive structure, fuzzy controller, pursuing problem

22 APL: A prototyping language
Robert Bernecky
May 1986 **ACM SIGAPL APL Quote Quad , Proceedings of the international conference
on APL**, Volume 16 Issue 4

Full text available: pdf(796.12 KB) Additional Information: full citation, abstract, references, citings, index terms

The use of APL as a language for system design and prototyping is discussed. Benefits of APL over traditional design techniques are shown to include higher productivity, improved code reliability, superior maintainability and performance, and executable documentation. Hierarchical and hybrid approaches to modelling systems of various degrees of complexity are presented, with examples chosen from the author's experience.

23 Knowledge representation in expert systems in a linguistic form
Joris E. De Meyer
August 1994 **ACM SIGAPL APL Quote Quad , Proceedings of the international
conference on APL : the language and its applications: the language and
its applications**, Volume 25 Issue 1

Full text available: pdf(486.41 KB) Additional Information: full citation, abstract, references, citings, index terms

A good expert system needs to be as close as possible to the knowledge and data manipulation of the expert himself. Often experts use linguistic instead of numerical values. When input data are mostly qualitative and are based on subjective knowledge of experts, the Fuzzy Set Theory is a solid mathematical model to represent and handle these data. APL arrays, scalars, vectors, matrices, operands etc. provide powerful means for implementing fuzzy sets. In this paper we will ...

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1 Machine interpretation of CAD data for manufacturing applications
Qiang Ji, Michael M. Marefat
September 1997 **ACM Computing Surveys (CSUR)**, Volume 29 Issue 3

Full text available: 📄 pdf(1.90 MB)   Additional Information: full citation, abstract, references, citings, index terms, review

Machine interpretation of the shape of a component for CAD databases is an important problem in CAD/CAM, computer vision, and intelligent manufacturing. It can be used in CAD/CAM for evaluation of designs, in computer vision for machine recognition and machine inspection of objects, and in intelligent manufacturing for automating and integrating the link between design and manufacturing. This topic has been an active area of research since the late '70s, and a significant number of computat ...

Keywords: artificial intelligence, automated process planning, computer-aided design, computer-integrated manufacturing, feature recognition, flexible automation

2 Pen computing: a technology overview and a vision
André Meyer
July 1995 **ACM SIGCHI Bulletin**, Volume 27 Issue 3

Full text available: 📄 pdf(5.14 MB)   Additional Information: full citation, abstract, citings, index terms

This work gives an overview of a new technology that is attracting growing interest in public as well as in the computer industry itself. The visible difference from other technologies is in the use of a pen or pencil as the primary means of interaction between a user and a machine, picking up the familiar pen and paper interface metaphor. From this follows a set of consequences that will be analyzed and put into context with other emerging technologies and visions.Starting with a short historic ...

3 Design of a fuzzy traffic controller for ATM networks
Ray-Guang Cheng, Chung-Ju Chang
June 1996 **IEEE/ACM Transactions on Networking (TON)**, Volume 4 Issue 3

Full text available: 📄 pdf(1.67 MB)   Additional Information: full citation, references, citings, index terms

4 Some algebraic and combinatorial aspects of Multiple-valued circuits

I. G. Rosenberg
May 1976 **Pr ceedings f the sixth internati nal symp sium on Multiple-valued logic**

Full text available: pdf(1.20 MB)   Additional Information: full citation, abstract, references, citings, index terms

The purpose of this expository paper is to review some algebraic and combinatorial results arising in the theory of multiple-level switching circuits. Due to space limitations a selection from the surprisingly rich literature had to be made: the trends and topics presented at the past five International Symposia on Multiple-valued logic. The discussion centers on the formulation of basic problems rather than on the presentation of particular results which may be found in a detailed bibliogr ...

5 An APL based relational data management language using SYSTEM R as data server
F. Antonacci, P. Dell'Orco
May 1985 **ACM SIGAPL APL Quote Quad , Proceedings of the international conference on APL: APL and the future**, Volume 15 Issue 4

Full text available: pdf(634.53 KB)   Additional Information: full citation, abstract, references, index terms

This report describes a system for accessing System R, via AQL, a query language based on APL, developed by IBM Italy Scientific Centers. System R and AQL reside in two different Virtual Machines: the DB Machine and the User Machine, respectively. The two Machines communicate through VMCF, an inter-machine communication facility in VM/370 environment. Queries formulated in AQL are shipped to System R, translated into SQL (the native query language of System R) and the results bro ...

6 Principled design of the modern Web architecture
Roy T. Fielding, Richard N. Taylor
May 2002 **ACM Transactions on Internet Technology (TOIT)**, Volume 2 Issue 2

Full text available: pdf(335.47 KB)   Additional Information: full citation, abstract, references, citings, index terms

The World Wide Web has succeeded in large part because its software architecture has been designed to meet the needs of an Internet-scale distributed hypermedia application. The modern Web architecture emphasizes scalability of component interactions, generality of interfaces, independent deployment of components, and intermediary components to reduce interaction latency, enforce security, and encapsulate legacy systems. In this article we introduce the Representational State Transfer (REST) arc ...

Keywords: Network-based applications, REST, World Wide Web

7 Principled design of the modern Web architecture
Roy T. Fielding, Richard N. Taylor
June 2000 **Proceedings of the 22nd international conference on Software engineering**

Full text available: pdf(217.34 KB)   Additional Information: full citation, abstract, references, citings, index terms

The World Wide Web has succeeded in large part because its software architecture has been designed to meet the needs of an Internet-scale distributed hypermedia system. The modern Web architecture emphasizes scalability of component interactions, generality of interfaces, independent deployment of components, and intermediary components to reduce interaction latency, enforce security, and encapsulate legacy systems. In this paper, we introduce the Representational State Tra ...

Keyw rds: WWW, software architectural style, software architecture

8 Fuzzy effectiveness evaluation for intelligent user interfaces to GIS visualization
Volker Jung
November 1996 **Pr ceedings f the 4th ACM internati nal w rkshop n Advances in ge graphic inf rmati n systems**
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9 Fuzzy RuleNet: an artificial neural network model for fuzzy classification
Nadine Tschichold-Gürman
April 1994 **Proceedings of the 1994 ACM symposium on Applied computing**
Full text available: pdf(571.46 KB)   Additional Information: full citation, references, index terms

10 AI techniques for modelling legal negotiation
Emilia Bellucci, John Zeleznikow
June 1999 **Proceedings of the seventh international conference on Artificial intelligence and law**
Full text available: pdf(1.03 MB)   Additional Information: full citation, abstract, references, citings, index terms

Negotiation is a process of cooperative decision-making between parties concerning the resolution of a common dispute. The goal of negotiation is to develop a settlement that is acceptable to both parties. One way to achieve this is to ensure disputants take responsibility for their outcomes and control the disputation process. Most current systems have chosen to model the negotiation process by representing progress made within a negotiation. In this paper we focus on modelling the trade-o ...

Keywords: Australian family law, bidirectional fuzzy cognitive maps, negotiation support system

11 Notation as a tool of thought
Kenneth E. Iverson
August 1980 **Communications of the ACM**, Volume 23 Issue 8
Full text available: pdf(3.81 MB)   Additional Information: full citation, references, citings

Keywords: APL, mathematical notation

12 Using an architectural knowledge base to generate code for parallel computers
Anthony E. Terrano, Stanley M. Dunn, Joseph E. Peters
September 1989 **Communications of the ACM**, Volume 32 Issue 9
Full text available: pdf(1.01 MB)   Additional Information: full citation, abstract, references, citings, index terms, review

The authors present a reconfigurable compiler for distributed memory parallel computers that performs automatic program partitioning, mapping, and communication code generation under the guidance of directives supplied by the programmer.

13 The Datacycle architecture
T. F. Bowen, G. Gopal, G. Herman, T. Hickey, K. C. Lee, W. H. Mansfield, J. Raitz, A. Weinrib
December 1992 **C mmunicati ns f the ACM**, Volume 35 Issue 12

Full text available: pdf(3.91 MB)   Additional Information: full citation, references, citings, index terms, review

Keywords: VLSI filtering, concurrency control, data filtering, database architectures, database machines, fuzzy queries, high performance, transaction processing

14 Industrial applications: The importance of dealing with uncertainty in the evaluation of software engineering methods and tools
Gerardo Canfora, Luigi Troiano
July 2002 **Proceedings of the 14th international conference on Software engineering and knowledge engineering**
Full text available: pdf(336.10 KB)   Additional Information: full citation, abstract, references, index terms

The correct choice of software tools and methods is a critical success factor to reach and maintain market leadership. A mature approach to estimate the impact and risk of technology adoption is required. This paper underlines the need for dealing with uncertainty to manage correctly the risk of decision-making and proposes a method for evaluating software engineering methods and tools. The method, named Software Engineering Fuzzy Evaluation Method (SEFEM) is centred on a new class of fuzzy aggr ...

Keywords: aggregation, decision making, decision support systems, evaluation, fuzzy logic

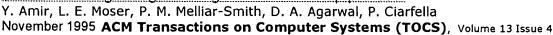**15** ACORN: APL to C on real numbers
Robert Bernecky, Charles Brenner, Stephen B. Jaffe, George P. Moeckel
May 1990 **ACM SIGAPL APL Quote Quad , Conference proceedings on APL 90: for the future**, Volume 20 Issue 4
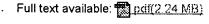Full text available: pdf(778.77 KB)   Additional Information: full citation, abstract, references, citings, index terms

a prototype APL to C compiler (ACORN: APL to C On Real Numbers) was produced while investigating improved tools for solving numerically intensive problems on supercomputers. ACORN currently produces code which runs slower than hand-coded Cray FORTRAN, but we have identified the major performance bottlenecks, and believe we know how to remove them. Although created in a short time on a limited budget, and intended only as a proof of the feasibility of compil ...

16 The Totem single-ring ordering and membership protocol
Y. Amir, L. E. Moser, P. M. Melliar-Smith, D. A. Agarwal, P. Ciarfella
November 1995 **ACM Transactions on Computer Systems (TOCS)**, Volume 13 Issue 4
Full text available: pdf(2.24 MB)   Additional Information: full citation, abstract, references, citings, index terms, review

Fault-tolerant distributed systems are becoming more important, but in existing systems, maintaining the consistency of replicated data is quite expensive. The Totem single-ring protocol supports consistent concurrent operations by placing a total order on broadcast messages. This total order is derived from the sequence number in a token that circulates around a logical ring imposed on a set of processors in a broadcast domain. The protocol handles reconfiguration of the system when proces ...

Keyw rds: flow control, membership, reliable delivery, token passing, total ordering, virtual synchrony

17 TIRS: a topological information retrieval system satisfying the requirements of the Waller-Kraft wish list
S. Cater, D. Kraft
November 1987 **Pr ceedings f the 10th annual internati nal ACM SIGIR c nference on Research and devel pment in informati n retrieval**

Full text available: pdf(982.95 KB)   Additional Information: full citation, abstract, references, citings, index terms

Most document retrieval systems based on probabilistic models of feature distributions assume random selection of documents for retrieval. The assumptions of these models are met when documents are randomly selected from the database or when retrieving all available documents. A more suitable model for retrieval of a single document assumes that the best document available is to be retrieved first. Models of document retrieval systems assuming random selection and best-first selection are d ...

18 Agent-based semantic interoperability in infosleuth
Jerry Fowler, Brad Perry, Marian Nodine, Bruce Bargmeyer
March 1999 **ACM SIGMOD Record**, Volume 28 Issue 1

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19 Book reviews
June 2000 **intelligence**, Volume 11 Issue 2

Full text available: pdf(604.19 KB)
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20 Application of fuzzy logic to approximate reasoning using linguistic synthesis
E. H. Mamdani
May 1976 **Proceedings of the sixth international symposium on Multiple-valued logic**

Full text available: pdf(433.69 KB)   Additional Information: full citation, abstract, references, index terms

This paper describes an application of fuzzy logic in designing controllers for industrial plants. A Fuzzy Logic is used to synthesise linguistic control protocol of a skilled operator. The method has been applied to pilot scale plants as well as in a practical industrial situation. The merits of this method in its usefulness to control engineering are discussed. This work also illustrates the potential for using fuzzy logic in modelling and decision making. An avenue for further work in th ...

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21 Fuzzy spatial map representation for mobile robot navigation   ▨
Eddie Tunstel
February 1995 **Proceedings of the 1995 ACM symposium on Applied computing**

Full text available: 📄 pdf(495.68 KB)   Additional Information: full citation, references, index terms

Keywords: fuzzy logic map representation; robot navigation

22 Agent-based semantic interoperability in infosleuth   ▨
Jerry Fowler, Brad Perry, Marian Nodine, Bruce Bargmeyer
March 1999 **ACM SIGMOD Record**, Volume 28 Issue 1

Full text available: 📄 pdf(1.01 MB) Additional Information: full citation, citings, index terms

23 GOSSIP: a generic system for statistical circuit design   ▭
L. J. Opalski, M. A. Styblinski
November 1992 **Proceedings of the conference on European design automation**

Full text available: 📄 pdf(647.61 KB)   Additional Information: full citation, references, index terms

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1 Machine interpretation of CAD data for manufacturing applications
Qiang Ji, Michael M. Marefat
September 1997 **ACM Computing Surveys (CSUR)**, Volume 29 Issue 3

Full text available: pdf(1.90 MB)   Additional Information: full citation, abstract, references, citings, index terms, review

Machine interpretation of the shape of a component for CAD databases is an important problem in CAD/CAM, computer vision, and intelligent manufacturing. It can be used in CAD/CAM for evaluation of designs, in computer vision for machine recognition and machine inspection of objects, and in intelligent manufacturing for automating and integrating the link between design and manufacturing. This topic has been an active area of research since the late '70s, and a significant number of computat ...

Keywords: artificial intelligence, automated process planning, computer-aided design, computer-integrated manufacturing, feature recognition, flexible automation

2 Fuzzy logic based non-parametric color image segmentation with optional block processing
Naoko Ito, Yoshihisa Shimazu, Teruo Yokoyama, Yutaka Matushita
February 1995 **Proceedings of the 1995 ACM 23rd annual conference on Computer science**
Full text available: pdf(920.20 KB)   Additional Information: full citation, references, citings, index terms

3 Design of a fuzzy traffic controller for ATM networks
Ray-Guang Cheng, Chung-Ju Chang
June 1996 **IEEE/ACM Transactions on Networking (TON)**, Volume 4 Issue 3
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4 Pen computing: a technology overview and a vision
André Meyer
July 1995 **ACM SIGCHI Bulletin**, Volume 27 Issue 3

Full text available: pdf(5.14 MB)   Additional Information: full citation, abstract, citings, index terms

This work gives an overview of a new technology that is attracting growing interest in public as well as in the computer industry itself. The visible difference from other technologies is in the use of a pen or pencil as the primary means of interaction between a user and a machine, picking up the familiar pen and paper interface metaphor. From this follows a set of consequences that will be analyzed and put into context with other emerging technologies and visions.Starting with a short historic ...

5 Managing subjective information in fuzzy database systems
Hideo Tashiro, Naoto Ohki, Takahiko Nomura, Teruo Yokoyama, Yutaka Masushita
March 1993 **Proceedings of the 1993 ACM conference on Computer science**

Full text available: pdf(593.78 KB)   Additional Information: full citation, abstract, references, index terms

The recent improvement of computer hardware has made them possible to manage imprecise information. An example is the fuzzy database system which allows imprecise data as well as imprecise queries. However, one serious problem has not been solved when imprecise information is handled. That is, the problem of subjectivity. Each person has his/her own subjectivity, and the definition of a fuzzy expression usually differs among individuals. In this paper, we present a method for managi ...

6 Biclustering Algorithms for Biological Data Analysis: A Survey
Sara C. Madeira, Arlindo L. Oliveira
January 2004 **IEEE/ACM Transactions on Computational Biology and Bioinformatics (TCBB)**, Volume 1 Issue 1
Full text available: pdf(1.28 MB)   Additional Information: full citation

Keywords: Biclustering, simultaneous clustering, coclustering, subspace clustering, bidimensional clustering, direct clustering, block clustering, two-way clustering, two-mode clustering, two-sided clustering, microarray data analysis, biological data analysis, gene expression data.

7 W.A.R.P and FUZZYSTUDIO: an easy and fast way to implement, With low cost, fuzzy logic control systems
A. Cucuccio, B. Giacalone, G. Sicurella
February 1996 **Proceedings of the 1996 ACM symposium on Applied Computing**
Full text available: pdf(590.65 KB)   Additional Information: full citation, index terms

8 A reusable software adaptative fuzzy controller architecture
David Rine, Moataz Ahmed, Junda Chen
February 1996 **Proceedings of the 1996 ACM symposium on Applied Computing**
Full text available: pdf(488.65 KB)   Additional Information: full citation, references, index terms

Keyw rds: abstract data type, adaptive algorithms, adaptive controller, fuzzy logic, software reuse

9 AI techniques for modelling legal negotiation
Emilia Bellucci, John Zeleznikow

June 1999 **Proceedings f the seventh internati nal conference n Artificial intelligence and law**

Full text available: pdf(1.03 MB)   Additional Information: full citation, abstract, references, citings, index terms

Negotiation is a process of cooperative decision-making between parties concerning the resolution of a common dispute. The goal of negotiation is to develop a settlement that is acceptable to both parties. One way to achieve this is to ensure disputants take responsibility for their outcomes and control the disputation process. Most current systems have chosen to model the negotiation process by representing progress made within a negotiation. In this paper we focus on modelling the trade-o ...

Keywords: Australian family law, bidirectional fuzzy cognitive maps, negotiation support system

10 An APL based relational data management language using SYSTEM R as data server
F. Antonacci, P. Dell'Orco
May 1985 **ACM SIGAPL APL Quote Quad , Proceedings of the international conference on APL: APL and the future,** Volume 15 Issue 4

Full text available: pdf(634.53 KB)   Additional Information: full citation, abstract, references, index terms

This report describes a system for accessing System R, via AQL, a query language based on APL, developed by IBM Italy Scientific Centers. System R and AQL reside in two different Virtual Machines: the DB Machine and the User Machine, respectively. The two Machines communicate through VMCF, an inter-machine communication facility in VM/370 environment. Queries formulated in AQL are shipped to System R, translated into SQL (the native query language of System R) and the results bro ...

11 Facial image retrieval, identification, and inference system
J. K. Wu, Y. H. Ang, P. C. Lam, S. K. Moorthy, A. D. Narasimhalu
September 1993 **Proceedings of the first ACM international conference on Multimedia**

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ps(2.38 MB)   Additional Information: full citation, references, index terms

12 Dealing with software process deviations using fuzzy logic based monitoring
Sorana Cîmpan, Flavio Oquendo
December 2000 **ACM SIGAPP Applied Computing Review,** Volume 8 Issue 2

Full text available: pdf(1.40 MB)   Additional Information: full citation, abstract, index terms

The work presented in this paper concerns the monitoring of software processes using a fuzzy logic based approach. The proposed monitoring for software processes focuses on the detection of deviations with respect to given models. The level of deviation is computed for different aspects of the process like progress, cost, structure (order between activities), etc. The proposed approach is implemented by the OMEGA environment (OMEGA stands for On-line Monitoring Environment: General and Adaptable ...

Keywords: fuzzy logic, monitoring, software processes

13 The Datacycle architecture
T. F. Bowen, G. Gopal, G. Herman, T. Hickey, K. C. Lee, W. H. Mansfield, J. Raitz, A. Weinrib
December 1992 **Communicati ns f the ACM,** Volume 35 Issue 12

Full text available: pdf(3.91 MB)   Additional Information: full citation, references, citings, index terms, review

Keyw rds: VLSI filtering, concurrency control, data filtering, database architectures, database machines, fuzzy queries, high performance, transaction processing

14 Military applications: Commander behavior and course of action selection in JWARS

Deborah Vakas, John Prince, H. Ric Blacksten, Chuck Burdick
December 2001 **Proceedings of the 33nd conference on Winter simulation**

Full text available: pdf(209.93 KB)   Additional Information: full citation, abstract, references, index terms

The Joint Warfare System (JWARS) is being equipped with a Commander Model (CM) to perform situation assessment and Course of Action (COA) selection, and a Commander Behavior Model (CBM) to bias decisions with a commander's leadership style. The CM is a hybrid artificial intelligence system that models doctrine through the use of fuzzy rule sets, together with a tree-based lookahead algorithm for the strategy. The CBM employs behavior-based fuzzy rule sets to augment the CM in assessing the situa ...

15 OMEGA: a language and system for on-line monitoring of software-intensive processes

Sorana Cîmpan, Flavio Oquendo
July 2000 **ACM SIGSOFT Software Engineering Notes**, Volume 25 Issue 4

Full text available: pdf(1.22 MB)   Additional Information: full citation, abstract, index terms

This paper presents an environment for monitoring software-intensive processes: the *Omega* environment (Omega stands for *On-line Monitoring Environment: General and Adaptable*). The environment provides the language *Omega/MDL* (*Monitoring Definition Language*) for defining monitoring models as well as a mechanism for the execution of such models *Omega/EM* (*Execution Mechanism*). The executing monitoring models (i.e. monitori ...

Keywords: environment, fuzzy logic, monitoring, software engineering, software-intensive processes

16 Knowledge representation and inference control of SPERIL-II

H. Ogawa, K. S. Fu, J. T. P. Yao
January 1984 **Proceedings of the 1984 annual conference of the ACM on The fifth generation challenge**

Full text available: pdf(579.83 KB)   Additional Information: full citation, abstract, references, index terms

SPERIL-II is an expert system for damage assessment of existing structures. Fuzzy sets for imprecise data and Dempster and Shafer's theory for combining fuzzy sets with certainty factors are used in an inexact inference. Since the process of the damage assessment is quite complex, metarules are used to control the inference in order to improve the effectiveness and reliability of results. The metarules in SPERIL-II are represented in logic form with emphases on the explicit representation o ...

Keywords: Expert system, Inference control, Logic representation, Metarule

17 Application of fuzzy indexing and retrieval in case based reasoning for design

Stefania Bandini, Sara Manzoni
March 2001 **Proceedings f the 2001 ACM symposium n Applied c mputing**

Full text available: pdf(447.03 KB)   Additional Information: full citation, references, index terms

Keywords: case-based reasoning in design, fuzzy logic

18 Plant control expert system coping with unforeseen events—model based reasoning using fuzzy qualitative reasoning
J. Suzuki, N. Sueda, Y. Gotoh, A. Kamiya
June 1990 **Proceedings of the third international conference on Industrial and engineering applications of artificial intelligence and expert systems - Volume 1**
Full text available: pdf(856.86 KB)   Additional Information: full citation, abstract, references, index terms

An ordinary expert system controls a plant according to heuristics. So, it fails to control the plant for lack of heuristics if unforeseen events occur as a result of abnormal situations. We propose a new framework of model-based reasoning that can dynamically generate the knowledge for plant control against unforeseen events. This proposed framework consists of three functions: (a) generation of the goal state after recovery from the unforeseen events; (b) generation of knowledge f ...

19 A model of multimedia information retrieval
Carlo Meghini, Fabrizio Sebastiani, Umberto Straccia
September 2001 **Journal of the ACM (JACM)**, Volume 48 Issue 5
Full text available: pdf(5.69 MB)   Additional Information: full citation, abstract, references, citings, index terms

Research on multimedia information retrieval (MIR) has recently witnessed a booming interest. A prominent feature of this research trend is its simultaneous but independent materialization within several fields of computer science. The resulting richness of paradigms, methods and systems may, on the long run, result in a fragmentation of efforts and slow down progress. The primary goal of this study is to promote an integration of methods and techniques for MIR by contributing a conceptual model ...

Keywords: Description logics, fuzzy logics, multimedia information retrieval

20 Density-based indexing for approximate nearest-neighbor queries
Kristin P. Bennett, Usama Fayyad, Dan Geiger
August 1999 **Proceedings of the fifth ACM SIGKDD international conference on Knowledge discovery and data mining**
Full text available: pdf(1.29 MB)   Additional Information: full citation, references, citings, index terms

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... a 9600 baud rate, with the following **character** format: 1 ... the input voltage and the
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membership functi ns; ... a 95 module for manipulating **character** strings of ...
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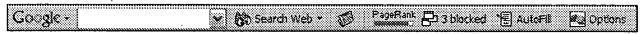
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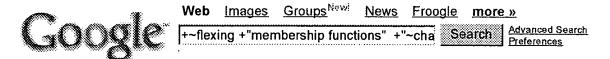Result Page: 1 **2** **3** **4** **5** **6** **7** **8** **9**   **Next**

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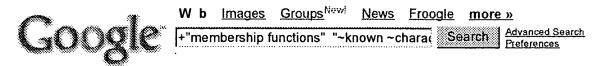Tip: Try removing quotes from your search to get more results.

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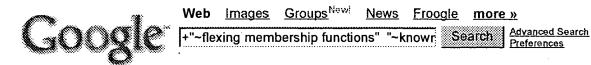Tip: Try removing quotes from your search to get more results.

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Shinn-Ying Ho; Tai-Kang Chen; Shinn-Jang Ho;
Computer Software and Applications Conference, 2000. COMPSAC 2000. The ;
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Pages:293 - 298

[Abstract]   [PDF Full-Text (452 KB)]   **IEEE CNF**

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2 **Design of high performance fuzzy controllers using flexible parameterized membership functions and intelligent genetic algorithn**
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Evolutionary Computation, 2002. CEC '02. Proceedings of the 2002 Congress
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Seok-Yong Oh; Dong-Jo Park;
SICE '95. Proceedings of the 34th SICE Annual Conference. International Sess Papers , 26-28 July 1995
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[Abstract]   [PDF Full-Text (264 KB)]   **IEEE CNF**

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2 **Extracting heuristically acceptable information from fuzzy/neural architectures via heuristic constraint enforcement. I. Foundation**
Mo-Yuen Chow; Altug, S.; Trussell, H.J.;
Neural Networks Proceedings, 1998. IEEE World Congress on Computational Intelligence. The 1998 IEEE International Joint Conference on , Volume: 2 , 4 May 1998
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3 **On parametric t-norm-sum-gravity inference method for fuzzy logic control**
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[Abstract]   [PDF Full-Text (164 KB)]   **IEEE CNF**

4 **Maneuver simulati n f a n n-linear system using membership func
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6 TMS320 DSP based neuro-fuzzy controller
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9 On-line self tuning fuzzy controller using intelligent membership function
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overhead lines and substations**
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4 **C nsistent digital c lor image acquisition f the skin**
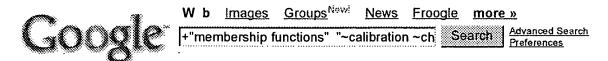*Vander Haeghen, Y.; Naeyeart, J.M.; Lemahieu, I.;*
Engineering in Medicine and Biology Society, 1998. Proceedings of the 20th A
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L5	2	4 and @ad<="20010820"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/26 18:29
L6	14	(2 and L3) not 4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/26 18:28
L7	9	6 and @ad<="20010820"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/26 18:29

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
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S23 2	47	know$3 adj3 S231 adj4 character$8	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/26 16:28
S23 3	3875	(multi$3 pluralit$3) adj3 S231	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/26 16:29
S23 4	5	S232 and S233	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/26 16:29
S23 5	5	S234 and @ad<="20010820"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/26 16:30

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	31530	know$3 adj3 character$8	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/26 15:21
L2	134	320/130.ccls.	USPAT	OR	ON	2004/12/26 15:22
L3	414	320/132.ccls.	USPAT	OR	ON	2004/12/26 15:22
L4	507	(L2 xor L3) (L2 and L3)	USPAT	OR	ON	2004/12/26 15:22
L5	148	706/1.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/26 15:22
L6	191	320/127.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/26 15:22
L7	339	(L5 xor L6) (L5 and L6)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/26 15:22
L8	188	702/63.ccls.	USPAT	OR	ON	2004/12/26 15:22
L9	51	702/88.ccls.	USPAT	OR	ON	2004/12/26 15:22
L10	239	(L8 xor L9) (L8 and L9)	USPAT	OR	ON	2004/12/26 15:22
L11	512	(L10 xor L7) (L10 and L7)	USPAT	OR	ON	2004/12/26 15:22
L12	998	(L11 xor L4) (L11 and L4)	USPAT	OR	ON	2004/12/26 15:22
L13	262	320/106.ccls.	USPAT	OR	ON	2004/12/26 15:22
L14	1230	(L12 xor L13) (L12 and L13)	USPAT	OR	ON	2004/12/26 15:22
L15	29	1 and L14	USPAT	OR	ON	2004/12/26 16:03
L16	24	15 and @ad<="20010820"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/26 16:03
L17	20	16 and compar$5	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/26 16:02

L18	3156	1 same compar$5	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/26 16:02
L19	3156	l1 same compar$5	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/26 16:02
L20	7	18 and L14	USPAT	OR	ON	2004/12/26 16:03
L21	6	20 and @ad<="20010820"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/26 16:03

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Communications, IEEE Transactions on [legacy, pre - 1988] , Volume: 24 , Is: 6 , Jun 1976
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Geoscience and Remote Sensing, IEEE Transactions on , Volume: 37 , Issue: 2 , March 1999
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IECON 02 [Industrial Electronics Society, IEEE 2002 28th Annual Conference (
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Pages:321 - 326

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Electronics Manufacturing Technology Symposium, 1999. Twenty-Fourth
IEEE/CPMT , 18-19 Oct. 1999
Pages:23 - 35

[Abstract]   [PDF Full-Text (1648 KB)]   **IEEE CNF**

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8 **Doppler bandwidth and mean frequency from time-frequency estim:**
Cardoso, J.C.; Ruano, M.G.; Fish, P.;
Engineering in Medicine and Biology Society, 1995. IEEE 17th Annual
Conference , Volume: 2 , 20-23 Sept. 1995
Pages:997 - 998 vol.2

[Abstract]   [PDF Full-Text (188 KB)]   **IEEE CNF**

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9 **Computer simulation for performance evaluation in HF radio links:
system and coding schemes optimization**
Bernardini, A.; Bernesi, M.; Pattuelli, R.; Snidero, P.;
HF Radio Systems and Techniques, 1991., Fifth International Conference on ,
25 Jul 1991
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61 PARDI!
François Boulier, François Lemaire, Marc Moreno Maza
July 2001 **Proceedings of the 2001 international symposium on Symbolic and algebraic computation**

Full text available: 📄 pdf(780.18 KB)   Additional Information: full citation, abstract, references, citings, index terms

We propose a new algorithm for converting a characteristic set of a prime differential ideal from one ranking into another. This differential algebra algorithm computes characteristic sets by change of ranking (ordering) for prime ideals. It identifies the purely algebraic subproblems which arise during differential computations and solves them algebraically. There are two improvements w.r.t. other approaches: formerly unsolved problems could be carried out; it is conceptually simple. Differe ...

Keywords: PDE, change of rankings, characteristic sets, differential algebra, gcd

62 The tracker: a threat to statistical database security
Dorothy E. Denning, Peter J. Denning
March 1979 **ACM Transactions on Database Systems (TODS)**, Volume 4 Issue 1

Full text available: 📄 pdf(1.36 MB)   Additional Information: full citation, abstract, references, citings, index terms

The query programs of certain databases report raw statistics for query sets, which are groups of records specified implicitly by a characteristic formula. The raw statistics include query set size and sums of powers of values in the query set. Many users and designers believe that the individual records will remain confidential as long as query programs refuse to report the statistics of query sets which are too small. It is shown that the compromise of small query sets can in fact almost ...

Keywords: confidentiality, data security, database security, secure query functions, statistical database, tracker

63 Generating box-constrained optimization problems
Francisco Facchinei, Joaquim Júdice, João Soares
September 1997 **ACM Transactions on Mathematical Software (TOMS)**, Volume 23 Issue 3

Full text available: Additional Information: full citation, abstract, references, citings, index

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We present a method for generating box-constrained nonlinear programming test problems. The technique allows the user to control some properties of the generated test problems that are know to influence the behavior of algorithms for their solution. A corresponding set of Fortran 77 routines is described in a companion algorithm (774).

Keywords: nonlinear programming test problems, optimization, test problems generation

64 Efficient instruction cache simulation and execution profiling with a threaded-code interpreter
Peter S. Magnusson
December 1997 **Proceedings of the 29th conference on Winter simulation**
Full text available: pdf(912.22 KB)   Additional Information: full citation, references, index terms

65 Real-time, time-shared computer project
Herbert M. Teager
January 1962 **Communications of the ACM**, Volume 5 Issue 1
Full text available: pdf(370.97 KB)   Additional Information: full citation

Keywords: devices, graphical languages, handwriting recognition, information retrieval, man-machine symbiosis, pattern recognition, real-time, scheduling, time sharing

66 Theory of mechanical languages
Saul Gorn
January 1962 **Communications of the ACM**, Volume 5 Issue 1
Full text available: pdf(370.97 KB)   Additional Information: full citation, references

Keywords: language extensions, language functions, language translations, mechanical languages, tree languages

67 Real-time simulation of mapping radar
Roger L. Boyell
January 1962 **Communications of the ACM**, Volume 5 Issue 1
Full text available: pdf(370.97 KB)   Additional Information: full citation, references

Keywords: hybrid computers, radar simulation, real-time analog/digital computing, real-time simulation at megacycle rates, terrain mapping

68 The arcade laboratory: an environment to help teach algorithms
J. M. Cagnat, V. Gueraud, J. P. Peyrin
November 1990 **ACM SIGCSE Bulletin**, Volume 22 Issue 4
Full text available: pdf(629.46 KB)   Additional Information: full citation, abstract, index terms

We propose different ways to use the computer to help teach algorithms. Our objective however is not to develop a complete and autonomous computer assisted course, such that the student would be given a set of floppy disks and would come back a few months later only for his exams! We want rather to provid e students and teachers with software tools tha t enhance and complement teaching practices as they exist in a traditional environment: formal lectures; exercises in small groups; individual co ...

69 A holistic approach to service survivability

Angelos D. Keromytis, Janak Parekh, Philip N. Gross, Gail Kaiser, Vishal Misra, Jason Nieh, Dan Rubenstein, Sal Stolfo

October 2003 **Proceedings of the 2003 ACM workshop on Survivable and self-regenerative systems: in association with 10th ACM Conference on Computer and Communications Security**

Full text available: pdf(1.58 MB)   Additional Information: full citation, abstract, references, index terms

We present SABER (Survivability Architecture: Block, Evade, React), a proposed survivability architecture that blocks, evades and reacts to a variety of attacks by using several security and survivability mechanisms in an automated and coordinated fashion. Contrary to the ad hoc manner in which contemporary survivable systems are built-using isolated, independent security mechanisms such as firewalls, intrusion detection systems and software sandboxes-SABER integrates several different techno ...

Keywords: intrusion detection, overlay networks, survivability

70 A simulation study of operational procedures for increasing the efficiency of inland waterways transportation

Kiran J. Desai, Jerry Prock

December 1978 **Proceedings of the 10th conference on Winter simulation - Volume 2**

Full text available: pdf(795.70 KB)   Additional Information: full citation, abstract, references, index terms

Inland waterway transportation is an important part of American commerce. Any improvement in the operation of this waterway system could have far reaching effects. This paper describes a simulation study designed to identify methods of reducing delays at the locks. Factors used in the simulation were: lock utilization, tow mix, distance between locks, and sequencing rules. Cost estimates are used in conjunction with lock utilization and tow mix to find the total invest ...

71 The macro model for data compression (Extended Abstract)

James A. Storer, Thomas G. Szymanski

May 1978 **Proceedings of the tenth annual ACM symposium on Theory of computing**

Full text available: pdf(771.10 KB)   Additional Information: full citation, abstract, references, citings, index terms

A general model for data compression is presented which includes most data compression systems in the literature as special cases. All macro schemes are based on the principle of finding redundant strings or patterns and replacing them by pointers to a common copy. Different varieties of macro schemes may be defined by varying the interpretation of pointers, for instance, a pointer may indicate a substring of the compressed string, a substring of the original string, or a substring of some ...

72 Addressing operations for automatic data structure accessing

P. M. Fenwick

March 1984 **ACM SIGARCH C mputer Architecture News**, Volume 12 Issue 1

Full text available: pdf(883.48 KB)   Additional Information: full citation, abstract, references, citings

Although present computers often provide excellent operations for data manipulation, data accessing is generally performed by manipulation of addresses with little recognition of the actual data structure of programs. In an attempt to overcome this deficiency, a technique is presented whereby all of the data-accessing algorithms are separated out into separate code streams which run as coroutines in a special address processor. The operations of this address processor are appropriate to the acce ...

73 PODS invited talk: Models and issues in data stream systems
Brian Babcock, Shivnath Babu, Mayur Datar, Rajeev Motwani, Jennifer Widom
June 2002 **Proceedings of the twenty-first ACM SIGMOD-SIGACT-SIGART symposium on Principles of database systems**

Full text available: pdf(257.79 KB)   Additional Information: full citation, abstract, references, citings, index terms

In this overview paper we motivate the need for and research issues arising from a new model of data processing. In this model, data does not take the form of persistent relations, but rather arrives in multiple, continuous, rapid, time-varying *data streams.* In addition to reviewing past work relevant to data stream systems and current projects in the area, the paper explores topics in stream query languages, new requirements and challenges in query processing, and algorithmic issues.

74 Statistical Estimation of the Numerical Solution of a Fredholm Integral Equation of the First Kind
Otto Neall Strand, Ed. R. Westwater
January 1968 **Journal of the ACM (JACM)**, Volume 15 Issue 1

Full text available: pdf(896.74 KB)   Additional Information: full citation, abstract, references, citings, index terms

A method for the numerical solution of a Fredholm integral equation of the first kind is derived and illustrated. The method employs an a priori constraint vector together with covariances of both the constraint vector and the measurement errors. The method automatically incorporates an optimum amount of smoothing in the sense of maximum-likelihood estimation. The problem of obtaining optimum basis vectors is discussed. The trace of the covariance matrix of the error in the solution is used ...

75 Generating sums in constant average time
Luc Devroye
December 1988 **Proceedings of the 20th conference on Winter simulation**

Full text available: pdf(497.67 KB)   Additional Information: full citation, abstract, references, citings, index terms

We derive an algorithm that requires uniformly bounded time to generate the sum of n iid uniform [0,1] random variables. The expected time spent on the computation of the density of the sum per generated random variate tends to zero as $n \to \infty$

76 Oaklisp: an object-oriented scheme with first class types
Kevin J. Lang, Barak A. Pearlmutter
June 1986 **ACM SIGPLAN Notices , Conference proceedings on Object-oriented programming systems, languages and applications**, Volume 21 Issue 11

Full text available: pdf(584.28 KB)   Additional Information: full citation, abstract, references, citings, index terms

The Scheme papers demonstrated that lisp could be made simpler and more expressive by elevating functions to the level of first class objects. Oaklisp shows that a message based language can derive similar benefits from having first class types.

77 Closure maintenance in an object-oriented query model

Reda Alhajj, Faruk Polat

November 1994 **Pr ceedings f the third internati nal c nference on Inf rmati n and kn wledge management**

Full text available: 🔲 pdf(856.91 KB)   Additional Information: full citation, abstract, references, citings, index terms

An object-algebra is presented as a formal query model for object-oriented data models. The algebra serves not only to access and manipulate the structure and behavior of objects, but it also supports the creation of new objects and the introduction of new relationships into the schema. It provides a more powerful and flexible tool than messages for effectively dealing with complex situations and meeting associative access requirements. Operands as well as the results of operations in the p ...

Keywords: closure, database system, message expression, object algebra expression, object-oriented data model, object-oriented query language, query model, total instances

78 Array morphology

Robert Bernecky

September 1993 **ACM SIGAPL APL Quote Quad , Proceedings of the international conference on APL,** Volume 24 Issue 1

Full text available: 🔲 pdf(1.02 MB)   Additional Information: full citation, abstract, references, citings, index terms, review
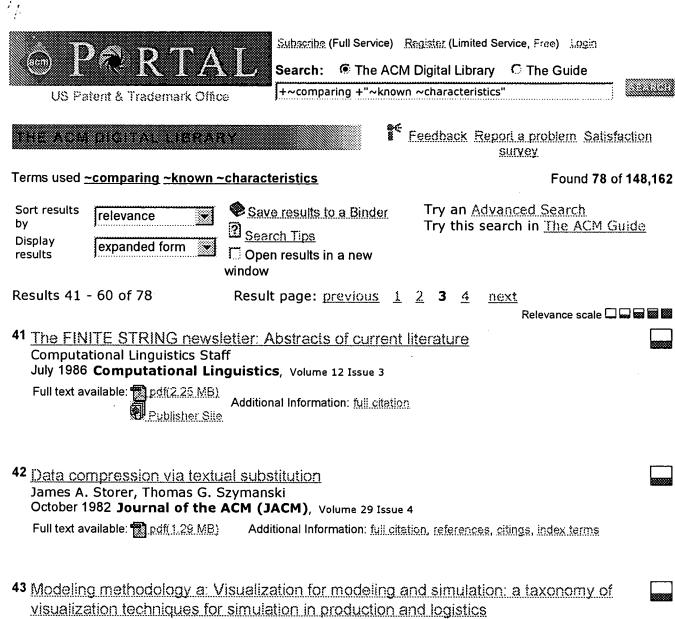
Array morphology is the study of the form, structure, and evolution of arrays. An *array annotation* for a program written in an applicative array language is an abstract syntax tree for the program, amended with information about the arrays created by that program. Array notations are useful in the production of efficient compiled code for applicative array programs. Array morphology is shown to be an effective compiler writer's tool. Examples of an array annotator in action are pre ...

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Relevance scale ☐ ▭ ▨ ▨ ▨

41 The FINITE STRING newsletter: Abstracts of current literature
Computational Linguistics Staff
July 1986 **Computational Linguistics**, Volume 12 Issue 3
Full text available: 📄 pdf(2.25 MB)   Additional Information: full citation
📄 Publisher Site

42 Data compression via textual substitution
James A. Storer, Thomas G. Szymanski
October 1982 **Journal of the ACM (JACM)**, Volume 29 Issue 4
Full text available: 📄 pdf(1.29 MB)   Additional Information: full citation, references, citings, index terms

43 Modeling methodology a: Visualization for modeling and simulation: a taxonomy of visualization techniques for simulation in production and logistics
Sigrid Wenzel, Jochen Bernhard, Ulrich Jessen
December 2003 **Proceedings of the 35th conference on Winter simulation: driving innovation**
Full text available: 📄 pdf(609.67 KB)   Additional Information: full citation, abstract, references

Simulation has become one of the most important techniques with regard to manufacturing and logistics systems. During modeling and experimenting simulation input and output data have to be presented to different target groups which range from simulation experts and factory planners to representatives of company management, and for different tasks and specific purposes. Different kinds of visualization techniques are used to present the simulation data, from static techniques as charts and lay ...

44 Session 8B: Real time scheduling and performance analysis: Efficient performance estimation for general real-time task systems
Hongchao Stephanie Liu, Xiaobo Sharon Hu
November 2001 **Proceedings of the 2001 IEEE/ACM international c nference on Computer-aided design**
Full text available: 📄 pdf(146.90 KB)   Additional Information: full citation, abstract, references, index terms

The paper presents a novel approach to compute tight upper bounds on the processor

utilization independent of the implementation for general real-time systems where tasks are composed of subtasks and precedence constraints may exist among subtasks of the same task. We formulate the problem as a set of linear programming (LP) problems. Observations are made to reduce the number of LP problem instances required to be solved, which greatly improves the computation time of the utilization bounds. Fu ...

45 Provisioning: Design, implementation, and evaluation of a client characterization driven web server
Balachander Krishnamurthy, Yin Zhang, Craig E. Wills, Kashi Vishwanath
May 2003 **Proceedings of the twelfth international conference on World Wide Web**

Full text available: pdf(184.71 KB)　　Additional Information: full citation, abstract, references, citings, index terms

In earlier work we proposed a way for a Web server to detect connectivity information about clients accessing it in order to take tailored actions for a client request. This paper describes the design, implementation, and evaluation of such a working system. A Web site has a strong incentive to reduce the 'time-to-glass' to retain users who may otherwise lose interest and leave the site. We have performed a measurement study from multiple client sites around the world with various levels of conn ...

Keywords: apache server, client classification, content delivery, httperf, server adaptation, web performance

46 Time multiplexed optical computers
Harry F. Jordan, Vincent P. Heuring
August 1991 **Proceedings of the 1991 ACM/IEEE conference on Supercomputing**

Full text available: pdf(818.47 KB)　　Additional Information: full citation, references, citings, index terms

47 Statistical bandwidth sharing: a study of congestion at flow level
S. Ben Fred, T. Bonald, A. Proutiere, G. Régnié, J. W. Roberts
August 2001 **ACM SIGCOMM Computer Communication Review , Proceedings of the 2001 conference on Applications, technologies, architectures, and protocols for computer communications**, Volume 31 Issue 4

Full text available: pdf(552.17 KB)　　Additional Information: full citation, references, citings, index terms

48 Contributed papers: Formal properties of metrical structure
Marc van Oostendorp
April 1993 **Proceedings of the sixth conference on European chapter of the Association for Computational Linguistics**

Full text available: pdf(923.89 KB)
Publisher Site
　　Additional Information: full citation, abstract, references

This paper offers a provisional mathematical typology of metrical representations. First, a family of algebras corresponding to different versions of grid and bracketed grid theory is introduced. It is subsequently shown in what way bracketed grid theory differs from metrical theories using trees. Finally, we show that there are no significant differences between the formalism of bracketed grids (for metrical structure) and the representation used in the work of [Kaye, *et al.*, 1985], [199 ...

49 Optimal indexing using near-minimal space
C. Heeren, H. V. Jagadish, L. Pitt

June 2003 **Pr ceedings f the twenty-sec nd ACM SIGMOD-SIGACT-SIGART
symp sium on Principles f database systems**
Full text available: pdf(203.43 KB)   Additional Information: full citation, abstract, references, index terms

We consider the index selection problem. Given either a fixed query workload or an
unknown probability distribution on possible future queries, and a bound B on how much
space is available to build indices, we seek to build a collection of indices for which the
average query response time is minimized. We give strong negative and positive
peformance bounds.Let m be the number of queries in the workload. We show how to
obtain with high probability a collection of indices using space ...

50 A notation for problematic architecture interactions
L. Davis, R. Gamble, J. Payton, G. Jónsdóttir, D. Underwood
September 2001 **ACM SIGSOFT Software Engineering Notes , Proceedings of the 8th
European software engineering conference held jointly with 9th ACM
SIGSOFT international symposium on Foundations of software
engineering**, Volume 26 Issue 5
Full text available: pdf(140.23 KB)   Additional Information: full citation, abstract, references, index terms

The progression of component-based software engineering (CBSE) is essential to the rapid,
cost-effective development of complex software systems. Given the choice of well-tested
components, CBSE affords reusability and increases reliability. However, applications
developed according to this practice can often suffer from difficult maintenance and control,
problems that stem from improper or inadequate integrate solutions. Avoiding such
unfortunate results requires knowledge of what causes the in ...

Keywords: architecture analysis, interoperability, software architecture

51 Usability analysis with Markov models
Harold Thimbleby, Paul Cairns, Matt Jones
June 2001 **ACM Transactions on Computer-Human Interaction (TOCHI)**, Volume 8 Issue 2

Full text available: pdf(289.08 KB)   Additional Information: full citation, abstract, references, citings, index
terms

How hard to users to find interactive devices to use to achieve their goals, and how can we
get this information early enough to influence design? We show that Markov modeling can
obtain suitable measures, and we provide formulas that can be used for a large class of
systems. We analyze and consider alternative designs for various real examples. We
introduce a "knowledege/usability graph," which shows the impact of even a smaller
amount of knowledge for the user, and the extent ...

Keywords: Markov models, usability analysis

52 Preliminary defect data from the iterative development of a large C++ program
(experience report)
James F. Walsh
October 1992 **ACM SIGPLAN Notices , conference proceedings on Object-oriented
programming systems, languages, and applications**, Volume 27 Issue 10
Full text available: pdf(644.66 KB)   Additional Information: full citation, references, citings, index terms

53 Japanese prosodic phrasing and intonation synthesis
Mary E. Beckman, Janet B. Pierrehumbert
July 1986 **Pr ceedings f the 24th c nference n Ass ciati n f r C mputational**

Linguistics

Full text available: pdf(777.86 KB)   Additional Information: full citation, abstract, references

Publisher Site

A computer program for synthesizing Japanese fundamental frequency contours implements our theory of Japanese intonation. This theory provides a complete qualitative description of the known characteristics of Japanese intonation, as well as a quantitative model of tone-scaling and timing precise enough to translate straightforwardly into a computational algorithm. An important aspect of the description is that various features of the intonation pattern are designated to be phonological properti ...

54 OOTW impact analysis
Dean S. Hartley, Richard E. Bell, Stephen L. Packard
December 1999 **Proceedings of the 31st conference on Winter simulation: Simulation--- a bridge to the future - Volume 2**
Full text available: pdf(296.65 KB)   Additional Information: full citation, references, index terms

55 On the power of qualitative simualation for estimating diffusion transit times
S. L. Hardt
December 1986 **Proceedings of the 18th conference on Winter simulation**
Full text available: pdf(481.63 KB)   Additional Information: full citation, abstract, references, index terms

Models describing the process of qualitative reasoning have significantly enhanced our insight into the general nature of the challenges involved in modeling people's imaginations when they think about complex processes. The composite picture created by combining models suggested by individual researchers may appear blurred This is because, in some cases, the range of applicability of each approach is not sharply defined, and the theoretical claims supporting the work are not sufficiently s ...

56 Consistency in a partitioned network: a survey
Susan B. Davidson, Hector Garcia-Molina, Dale Skeen
September 1985 **ACM Computing Surveys (CSUR)**, Volume 17 Issue 3

Full text available: pdf(3.20 MB)   Additional Information: full citation, abstract, references, citings, index terms, review

Recently, several strategies have been proposed for transaction processing in partitioned distributed database systems with replicated data. These strategies are surveyed in light of the competing goals of maintaining correctness and achieving high availability. Extensions and combinations are then discussed, and guidelines are presented for selecting strategies for particular applications.

57 A string language for symbol manipulation based on ALGOL 60
J. H. Wegstein, W. W. Youden
January 1962 **Communications of the ACM**, Volume 5 Issue 1
Full text available: pdf(977.02 KB)   Additional Information: full citation, references, citings

58 A fast procedure for finding a tracker in a statistical database
Dorothy E. Denning, Jan Schlörer
March 1980 **ACM Transacti ns on Database Systems (TODS)**, Volume 5 Issue 1
Full text available: pdf(1.06 MB)   Additional Information: full citation, abstract, references, citings, index terms

To avoid trivial compromises, most on-line statistical databases refuse to answer queries for statistics about small subgroups. Previous research discovered a powerful snooping tool, the tracker, with which the answers to these unanswerable queries are easily calculated. However, the extent of this threat was not clear, for no one had shown that finding a tracker is guaranteed to be easy. This paper gives a simple algorithm for finding a tracker when the maximum number of identic ...

Keywords: confidentiality, data security, database security, statistical database, tracker

59 Optimal file designs and reorganization points

D. S. Batory

March 1982 **ACM Transactions on Database Systems (TODS)**, Volume 7 Issue 1

Full text available: pdf(1.33 MB)   Additional Information: full citation, abstract, references, citings, index terms

A model for studying the combined problems of file design and file reorganization is presented. New modeling techniques for predicting the performance evolution of files and for finding optimal reorganization points for files are introduced. Applications of the model to hash-based and indexed-sequential files reveal important relationships between initial loading factors and reorganization frequency. A practical file design strategy, based on these relationships, is proposed.

Keywords: file design, file reorganization

60 Robotics: Locating moving entities in indoor environments with teams of mobile robots

Matthew Rosencrantz, Geoffrey Gordon, Sebastian Thrun

July 2003 **Proceedings of the second international joint conference on Autonomous agents and multiagent systems**

Full text available: pdf(299.29 KB)   Additional Information: full citation, abstract, references, citings, index terms

This article presents an implemented multi-robot system for playing the popular game of laser tag. The object of the game is to search for and tag opponents that can move freely about the environment. The main contribution of this paper is a new particle filter algorithm for tracking the location of many opponents in the presence of pervasive occlusion. We achieve efficient tracking principally through a clever factorization of our posterior into roles that can be dynamically added and merged. W ...

Keywords: laser tag, particle filter, robot exploration

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21 Calculation of ramp response of lossy transmission lines using two-port network functions   ▨
Payam Heydari, Massoud Pedram
April 1998 **Proceedings of the 1998 international symposium on Physical design**

Full text available: 🗎 pdf(649.38 KB)   Additional Information: full citation, abstract, references, index terms

> In this paper, we present a new analytical approach for computing the ramp response of an RLC interconnect line with a pure capacitive load. The approach is based on the two-port representation of the transmission line and accounts for the output resistance of the driver and the line inductance. The results of our analysis are compared with the results of HSPICE simulations demonstrating the high accuracy of our solution under various values of driver, interconnect, and load impedan ...

22 SAVE: an algorithm for smoothed adaptive video over explicit rate networks   ▨
N. G. Duffield, K. K. Ramakrishnan, Amy R. Reibman
December 1998 **IEEE/ACM Transactions on Networking (TON)**, Volume 6 Issue 6

Full text available: 🗎 pdf(539.13 KB)   Additional Information: full citation, references, citings, index terms

> **Keywords**: compressed video, multiplexing, rate control, smoothing

23 GISMO: a Generator of Internet Streaming Media Objects and workloads   ▨
Shudong Jin, Azer Bestavros
December 2001 **ACM SIGMETRICS Performance Evaluation Review**, Volume 29 Issue 3

Full text available: 🗎 pdf(1.10 MB)   Additional Information: full citation, abstract, references, citings, index terms

> This paper presents a tool called GISMO (Generator of Internet Streaming Media Objects and workloads). GISMO enables the specification of a number of streaming media access characteristics, including object popularity, temporal correlation of request, seasonal access patterns, user session durations, user inter-activity times, and variable bit-rate (VBR) self-similarity and marginal distributions. The embodiment of these characteristics in GISMO enables the generation ...

24   ▨
The effectiveness of affinity-based scheduling in multiprocessor network protocol

processing (extended version)
James D. Salehi, James F. Kurose, Don Towsley
August 1996 **IEEE/ACM Transacti ns on Netw rking (TON)**, Volume 4 Issue 4
Full text available: pdf(1.71 MB)   Additional Information: full citation, references, citings, index terms

25 A Bayesian decision model for cost optimal record matching
V. S. Verykios, G. V. Moustakides, M. G. Elfeky
May 2003 **The VLDB Journal — The International Journal on Very Large Data Bases**,
Volume 12 Issue 1
Full text available: pdf(180.87 KB)   Additional Information: full citation, abstract, index terms

In an error-free system with perfectly clean data, the construction of a global view of the
data consists of linking - in relational terms, joining - two or more tables on their key fields.
Unfortunately, most of the time, these data are neither carefully controlled for quality nor
necessarily defined commonly across different data sources. As a result, the creation of
such a global data view resorts to approximate joins. In this paper, an optimal solution is
proposed for the matching or the lin ...

Keywords: Cost optimal statistical model, Data cleaning, Record linkage

26 Instance-based attribute identification in database integration
Cecil Eng H. Chua, Roger H. L. Chiang, Ee-Peng Lim
October 2003 **The VLDB Journal — The International Journal on Very Large Data Bases**,
Volume 12 Issue 3
Full text available: pdf(220.13 KB)   Additional Information: full citation, abstract, index terms

Abstract.Most research on attribute identification in database integration has focused on
integrating attributes using schema and summary information derived from the attribute
values. No research has attempted to fully explore the use of attribute values to perform
attribute identification. We propose an attribute identification method that employs schema
and summary instance information as well as properties of attributes derived from their
instances. Unlike other attribute identification meth ...

Keywords: Attribute identification, Database integration, Measures of association

27 Finding all isolated solutions to polynomial systems using HOMPACK
Alexander P. Morgan, Andrew J. Sommese, Layne T. Watson
June 1989 **ACM Transactions on Mathematical Software (TOMS)**, Volume 15 Issue 2
Full text available: pdf(2.37 MB)   Additional Information: full citation, abstract, references, citings, index
terms, review

Although the theory of polynomial continuation has been established for over a decade
(following the work of Garcia, Zangwill, and Drexler), it is difficult to solve polynomial
systems using continuation in practice. Divergent paths (solutions at infinity), singular
solutions, and extreme scaling of coefficients can create catastrophic numerical problems.
Further, the large number of paths that typically arise can be discouraging. In this paper we
summarize polynomial-solving homotopy conti ...

28 Parallelizing nonnumerical code with selective scheduling and software pipelining
Soo-Mook Moon, Kemal Ebcioğlu
November 1997 **ACM Transacti ns n Programming Languages and Systems (TOPLAS)**,
Volume 19 Issue 6
Additional Information: full citation, abstract, references, citings, index

Full text available: 📄 pdf(543.93 KB)   terms

Instruction-level parallelism (ILP) in nonnumerical code is regarded as scarce and hard to exploit due to its irregularity. In this article, we introduce a new code-scheduling technique for irregular ILP called "selective scheduling" which can be used as a component for superscalar and VLIW compilers. Selective scheduling can compute a wide set of independent operations across all execution paths based on renaming and forward-substitution and can compute availab ...

Keywords: VLIW, global instruction scheduling, instruction-level parallelism, software pipelining, speculative code motion, superscalar

29 Region-based caching: an energy-delay efficient memory architecture for embedded processors
Hsien-Hsin S. Lee, Gary S. Tyson
November 2000 **Proceedings of the 2000 international conference on Compilers, architectures, and synthesis for embedded systems**
Full text available: 📄 pdf(313.57 KB)   Additional Information: full citation, citings

30 Special issue on independent components analysis: A maximum likelihood approach to single-channel source separation
Gil-Jin Jang, Te-Won Lee
December 2003 **The Journal of Machine Learning Research**, Volume 4
Full text available: 📄 pdf(1.07 MB)   Additional Information: full citation, abstract, index terms

This paper presents a new technique for achieving blind signal separation when given only a single channel recording. The main concept is based on exploiting *a priori* sets of time-domain basis functions learned by independent component analysis (ICA) to the separation of mixed source signals observed in a single channel. The inherent time structure of sound sources is reflected in the ICA basis functions, which encode the sources in a statistically efficient manner. We derive a le ...

31 Deterministic Processor Scheduling
Mario J. Gonzalez
September 1977 **ACM Computing Surveys (CSUR)**, Volume 9 Issue 3
Full text available: 📄 pdf(2.86 MB)   Additional Information: full citation, references, citings, index terms

32 Simulation support: prototyping the automation-based paradigm
Osman Balci, Richard E. Nance
December 1987 **Proceedings of the 19th conference on Winter simulation**
Full text available: 📄 pdf(976.96 KB)   Additional Information: full citation, abstract, references, citings, index terms

This paper describes our research efforts in prototyping the automation-based software paradigm to provide automated support for discrete-event simulation model development. The automation-based paradigm has been suggested as the software technology in the 1990's. The technology needed to support this paradigm does not yet exist. However, the benefits to be gained are so significant that, if achieved, it could profoundly change the way that simulation models are developed. We have been work ...

33 Determination of a dependent variable in the measurement of discrete event computer

simulation success
Roger McHaney
December 1994 **Proceedings f the 26th c nference n Winter simulation**
Full text available: pdf(295.74 KB)   Additional Information: full citation, index terms

34 The object-oriented paradigm and neurocomputing
Paul S. Prueitt, Robert M. Craig
May 1991 **Proceedings of the conference on Analysis of neural network applications**
Full text available: pdf(1.66 MB)   Additional Information: full citation, references, index terms

35 A conceptual framework for research in the analysis of simulation output
Thomas J. Schriber, Richard W. Andrews
April 1981 **Communications of the ACM**, Volume 24 Issue 4
Full text available: pdf(1.39 MB)   Additional Information: full citation, references, citings, index terms

Keywords: confidence intervals, measures of effectiveness, output analysis

36 The design and performance of a conflict-avoiding cache
Nigel Topham, Antonio González, José González
December 1997 **Proceedings of the 30th annual ACM/IEEE international symposium on Microarchitecture**
Full text available: pdf(1.21 MB)   Additional Information: full citation, abstract, references, citings, index terms
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High performance architectures depend heavily on efficient multi-level memory hierarchies to minimize the cost of accessing data. This dependence will increase with the expected increases in relative distance to main memory. There have been a number of published proposals for cache conflict-avoidance schemes. We investigate the design and performance of conflict-avoiding cache architectures based on polynomial modulus functions, which earlier research has shown to be highly effective at reducing ...

Keywords: cache architecture design, cache storage, conflict miss ratios, conflict-avoiding cache performance, data access cost minimization, high performance architectures, main memory, multi-level memory hierarchies, polynomial modulus functions

37 Design and implementation of a lexical data base
Eric Wehrli
March 1985 **Proceedings of the second conference on European chapter of the Association for Computational Linguistics**
Full text available: pdf(699.72 KB)   Additional Information: full citation, abstract, references, citings
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This paper is concerned with the specifications and the implementation of a particular concept of word-based lexicon to be used for large natural language processing systems such as machine translation systems, and compares it with the morpheme-based conception of the lexicon traditionally assumed in computational linguistics.It will be argued that, although less concise, a relational word-based lexicon is superior to a morpheme-based lexicon from a theoretical, computational and also practical ...

38 Evaluating computer game concepts with children
Libby Hanna, Denise Neapolitan, Kirsten Risden
June 2004 **Pr ceeding f the 2004 conference on Interacti n design and children: building a c mmunity**
Full text available: pdf(299.21 KB)   Additional Information: full citation, abstract, references

This paper describes exploratory research on how to evaluate concepts for new computer games with small samples of eight- and nine-year-old children. There were two phases to the research, one to validate the methodology with existing games and one to apply the methodology to new game ideas. The results found that separating game ideas (presented as brief written descriptions that were also read aloud to children) from game art (presented on computer screens) elicited the most valid reactions fr ...

Keywords: children's games, computer game, concept-testing, game concept, research methods

39 Congestion-dependent pricing of network services
Ioannis Ch. Paschalidis, John N. Tsitsiklis
April 2000 **IEEE/ACM Transactions on Networking (TON)**, Volume 8 Issue 2
Full text available: pdf(339.88 KB)   Additional Information: full citation, references, citings, index terms

Keywords: Internet economics, dynamic programming, loss networks, revenue management

40 In-service monitoring for cell loss quality of service violations in ATM networks
Hongbo Zho, Victor S. Frost
April 1996 **IEEE/ACM Transactions on Networking (TON)**, Volume 4 Issue 2
Full text available: pdf(903.56 KB)   Additional Information: full citation, references, citings, index terms

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1 A testbed for characterizing dynamic response of virtual environment spatial sensors   ▩
Bernard D. Adelstein, Eric R. Johnston, Stephen R. Ellis
December 1992 **Proceedings of the 5th annual ACM symposium on User interface software and technology**

Full text available: 📄 pdf(959.63 KB)   Additional Information: full citation, abstract, references, citings, index terms

This paper describes a testbed and method for characterizing the dynamic response of the type of spatial displacement transducers commonly used in virtual environment (VE) applications. The testbed consists of a motorized rotary swing arm that imparts known displacement inputs to the VE sensor. The experimental method involves a series of tests in which the sensor is displaced back and forth at a number of controlled frequencies that span the bandwidth of volitional human movement. During t ...

Keywords: input devices, sensor lag, spatial sensors, system calibration, virtual environments

2 MOM: a matrix SIMD instruction set architecture for multimedia applications   ▩
Jesus Corbal, Roger Espasa, Mateo Valero
January 1999 **Proceedings of the 1999 ACM/IEEE conference on Supercomputing (CDROM)**

Full text available: 📄 pdf(116.12 KB)   Additional Information: full citation, references, index terms

3 Management information systems: Industrial production and digital computers   ▩
A. Holzman, O. I. Franksen, M. D. Romer
August 1965 **Proceedings of the 1965 20th national conference**

Full text available: 📄 pdf(1.14 MB)   Additional Information: full citation, abstract, references, index terms

SOME OF THE MAIN problems in automating total data processing systems in industry, arise from the more complex problem areas. These areas include many of the so-called engineering design problems and also a majority of the higher level management decision processes in an industrial enterprise. These problem areas are normally dealt with by highly qualified personnel and are quite often presumed not to be automatable. The fact is that many theoretical schools are working on the development o ...

4 Group relations psychology and computer supported work some new directions for
research and development
William L. Anderson
October 1991 **ACM SIGOIS Bulletin , C nference proceedings on Organizational
c mputing systems**, Volume 12 Issue 2-3
Full text available: pdf(453.40 KB)   Additional Information: full citation, references, index terms

5 Extending equation-based congestion control to multicast applications
Jörg Widmer, Mark Handley
August 2001 **ACM SIGCOMM Computer Communication Review , Proceedings of the
2001 conference on Applications, technologies, architectures, and
protocols for computer communications**, Volume 31 Issue 4
Full text available: pdf(237.64 KB)   Additional Information: full citation, references, citings, index terms

> **Keywords**: TCP-friendliness, congestion control, feedback, multicast, single-rate,
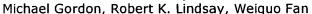> suppression

6 Macros for defining C++ classes
Conrad Weisert
November 1992 **ACM SIGPLAN Notices**, Volume 27 Issue 11
Full text available: pdf(571.37 KB)   Additional Information: full citation, index terms

7 Literature-based discovery on the World Wide Web
Michael Gordon, Robert K. Lindsay, Weiguo Fan
November 2002 **ACM Transactions on Internet Technology (TOIT)**, Volume 2 Issue 4
Full text available: pdf(119.62 KB)   Additional Information: full citation, abstract, references, index terms

> Previous research has shown that researchers can generate medical hypotheses by using
> computers to analyze several, seemingly unrelated, medical literatures. In this work we
> suggest broader application for the ideas of literature-based discovery. Specifically, we
> suggest that literature-based discovery can be fruitful in areas other than medicine; that in
> addition to finding "cures" for "problems," literature-based discovery offers the possibility of
> finding new problems for existing technologie ...

> **Keywords**: Literature-based discovery

8 Technical session 4: multimedia streaming: Application-specific path switching: a case
study for streaming video
Shu Tao, Roch Guérin
October 2004 **Proceedings of the 12th annual ACM international conference on
Multimedia**
Full text available: pdf(322.23 KB)   Additional Information: full citation, abstract, references, index terms

> The focus of this paper is on improving the quality of streaming video transmitted over the
> Internet. The approach we investigate assumes the availability of multiple paths between
> the source and the destination, and dynamically selects the best one. Although this is not a
> new concept, our contribution is in estimating the "goodness" of a path from the
> perspective of the video stream, instead of relying only on raw network performance

measures. The paper starts by showing that the use of raw ...

Keyw rds: path switching, quality, streaming video

9 Voice over IP: Intra-flow loss recovery and control for VoIP
Henning Sanneck, Nguyen Tuong Long Le, Adam Wolisz, Georg Carle
October 2001 **Proceedings of the ninth ACM international conference on Multimedia**

Full text available: pdf(1.05 MB)　　Additional Information: full citation, abstract, references, citings, index terms

"Best effort" packet-switched networks, like the Internet, do not offer a reliable transmission of packets to applications with real-time constraints such as voice. Thus, the loss of packets impairs the application-level utility. For voice this utility impairment is twofold: on one hand, even short bursts of lost packets may decrease significantly the ability of the receiver to conceal the packet loss and the speech signal playout is interrupted. On the other hand, some packets may be particular ...

Keywords: differentiated services, loss concealment, loss metrics, loss sensitivity, objective speech quality measurement, queue management, voice over IP

10 Novel techniques in high-level synthesis: Automating the design of an asynchronous DLX microprocessor
Manish Amde, Ivan Blunno, Christos P. Sotiriou
June 2003 **Proceedings of the 40th conference on Design automation**

Full text available: pdf(493.39 KB)　　Additional Information: full citation, abstract, references, index terms

In this paper the automated design of an asynchronous DLX microprocessor is presented. The microprocessor has been designed beginning with a standard RTL-like *Verilog* specification and the *Pipefitter* design flow has been used to automatically generate both the specification for the direct implementation of the Control Unit and a synthesisable Verilog specification of the Data Path. The architecture of the DLX is locally synchronous and globally asynchronous and the delay elements f ...

Keywords: DLX, asynchronous, design flow

11 Partial-match retrieval using indexed descriptor files
John L. Pfaltz, William J. Berman, Edgar M. Cagley
September 1980 **Communications of the ACM**, Volume 23 Issue 9

Full text available: pdf(743.16 KB)　　Additional Information: full citation, abstract, references, citings

In this paper we describe a practical method of partial-match retrieval in very large data files. A binary code word, called a descriptor, is associated with each record of the file. These record descriptors are then used to form a derived descriptor for a block of several records, which will serve as an index for the block as a whole; hence, the name "indexed descriptor files." First the structure of these files is described and a simple, efficient retrieval algorith ...

Keywords: bit codes, multiattribute, partial-match, retrieval, storage access cost

12 Verification, validation and accreditation: VV&A; IV: validation of trace-driven simulation models: more on bootstrap tests
Jack P. C. Kleijnen, Russell C. H. Cheng, Bert Bettonvil

December 2000 **Pr ceedings f the 32nd c nference n Winter simulati n**

Full text available: pdf(331.46 KB)   Additional Information: full citation, abstract, references, citings

'Trace-driven' or 'correlated inspection' simulation means that the simulated and the real systems have some common inputs (say, arrival times) so the two systems' outputs are cross-correlated. To validate such simulation models, this paper formulates six validation statistics, which are inspired by practice and statistical analysis; for example, the simplest statistic is the difference between the average simulated and real responses. To evaluate these validation statistics, the paper develops ...

13 Simulation of the operation of the coal supply system at a 2000 MW generating station
R. D. Walkley, N. D. Hutson
December 1969 **Proceedings of the third conference on Applications of simulation**

Full text available: pdf(842.53 KB)   Additional Information: full citation, abstract, index terms

The paper describes the G.P.S.S. simulation of a complex coal conveying system. This is represented by a functional flow model incorporating the design capabilities of the proposed real plant. The flows between the several inputs and outputs are controlled by a separate process control which simulates the monitoring and decision making functions of the operators. This takes into account the present state of the system (coal supply/demand, plant breakdowns, weather conditions, etc ...

14 Posters: Robust software via agent-based redundancy
Michael N. Huhns, Vance T. Holderfield, Rosa Laura Zavala Gutierrez
July 2003 **Proceedings of the second international joint conference on Autonomous agents and multiagent systems**

Full text available: pdf(137.31 KB)   Additional Information: full citation, abstract, references, index terms

This paper describes how multiagent systems can be used to achieve robust software. The paper develops the hypothesis that robust software can be achieved through redundancy, where agents that have different algorithms but similar responsibilities provide the redundancy. Wrapping conventional algorithms with a minimal set of agent capabilities, which we specify, produces the agents. We show that the same wrapper can be used for a variety of algorithms. We describe our initial experiments in veri ...

Keywords: autonomic computing, robust software

15 Natural language navigation in multimedia archives: an integrated approach
Ingo Glöckner, Alois Knoll
October 1999 **Proceedings of the seventh ACM international conference on Multimedia (Part 1)**

Full text available: pdf(1.51 MB)   Additional Information: full citation, abstract, references, index terms

The paper presents the design and prototypical implementation of an integrated retrieval system (HPQS) which provides natural language access to multimedia documents in restricted topic areas. It supports new flexible ways of querying by combining a semantically rich retrieval model based on fuzzy set theory with domain-specific methods for document analysis which can be applied online (i.e. the search criteria are not restricted to combinations of anticipated descriptors). Emphasis is put ...

16 An assessment model for requirements identification in component-based software development
Hemant Jain, Padmal Vitharana, Fatemah Mariam Zahedi
November 2003 **ACM SIGMIS Database**, Volume 34 Issue 4

Full text available: pdf(320.60 KB)   Additional Information: full citation, abstract, references, index terms

Software development literature is replete with studies that demonstrate how ineffective requirements analysis (RA) has led to failed applications. Some of the difficulties encountered in RA however are due to inherent limitations in traditional approach to software development. On the other hand, component-based software development (CBSD) presents a unique approach to developing software. Components advertise the services they offer and could be organized in a knowledge-base (i.e., repository) ...

Keywords: component-based software development, information processing theory, requirements analysis

17 The state of the art in locally distributed Web-server systems
Valeria Cardellini, Emiliano Casalicchio, Michele Colajanni, Philip S. Yu
June 2002 **ACM Computing Surveys (CSUR)**, Volume 34 Issue 2

Full text available: pdf(1.41 MB)   Additional Information: full citation, abstract, references, citings, index terms

The overall increase in traffic on the World Wide Web is augmenting user-perceived response times from popular Web sites, especially in conjunction with special events. System platforms that do not replicate information content cannot provide the needed scalability to handle large traffic volumes and to match rapid and dramatic changes in the number of clients. The need to improve the performance of Web-based services has produced a variety of novel content delivery architectures. This article w ...

Keywords: Client/server, World Wide Web, cluster-based architectures, dispatching algorithms, distributed systems, load balancing, routing mechanisms

18 Control policies in CSMA local area networks: ethernet controls
Erol Gelenbe, Isi Mitrani
August 1982 **ACM SIGMETRICS Performance Evaluation Review , Proceedings of the 1982 ACM SIGMETRICS conference on Measurement and modeling of computer systems**, Volume 12 Issue 3
Full text available: pdf(577.68 KB)   Additional Information: full citation, abstract, references

An analysis of the random carrier sense multiple access channel is presented in terms of the behaviour of each participating station. A detailed model of the station protocol, including the control policy used in case collisions, is used to derive the traffic and throughput of each station. The channel traffic characteristics are derived from this model and used, in turn, to derive the traffic parameters entering into the station model. This provides a solution method for complete system char ...

19 Comparison of dispatching rules for semiconductor manufacturing using large facility models
Manfred Mittler, Alexander K. Schoemig
December 1999 **Proceedings of the 31st conference on Winter simulation: Simulation--- a bridge to the future - Volume 1**
Full text available: pdf(59.96 KB)   Additional Information: full citation, references, citings, index terms

20 A Multicast Routing Algorithm Reducing Congestion
Anna G. H. Ha, Dongmei G. H. Wang
July 1997 **International J urnal f Network Management**, Volume 7 Issue 3
Full text available: pdf(449.74 KB)   Additional Information: full citation, abstract, references, index terms

A new multicast routing algorithm reducing congestion is presented in this article. The algorithm uses efficient routing by transmitting multicast packets across fewer links in the network. In addition, the algorithm balances the use of network nodes and links by reducing packet duplication in the nodes. © 1997 John Wiley & Sons, Ltd.

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1 PARDI!
François Boulier, François Lemaire, Marc Moreno Maza
July 2001   **Proceedings of the 2001 international symposium on Symbolic and algebraic computation**
Full text available: 📄 pdf(780.18 KB)   Additional Information: full citation, abstract, references, citings, index terms
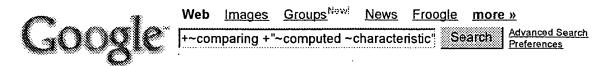
We propose a new algorithm for converting a characteristic set of a prime differential ideal from one ranking into another. This differential algebra algorithm computes characteristic sets by change of ranking (ordering) for prime ideals. It identifies the purely algebraic subproblems which arise during differential computations and solves them algebraically. There are two improvements w.r.t. other approaches: formerly unsolved problems could be carried out; it is conceptually simple. Differe ...

Keywords: PDE, change of rankings, characteristic sets, differential algebra, gcd

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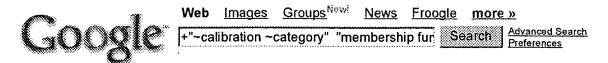Tip: Try removing quotes from your search to get more results.

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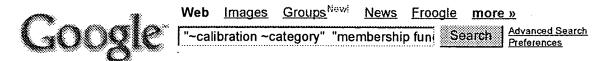
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